International Application No PCT/CA 03/01760

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J20/04 B01J20/34 B01D53/62

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/080223 A (CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS) 2 October 2003 (2003-10-02) the whole document	10-20
Α	US 2002/037246 A1 (C. BEAL) 28 March 2002 (2002-03-28) page 2, paragraphs 18,19,23	10-20
Α	US 2003/007918 A1 (L.S.FAN) 9 January 2003 (2003-01-09) page 2, paragraph 25 - page 3, paragraph 31; figure 2	10-20

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:	*T* later document published after the International filing date
*A* document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*E* earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention
O' document referring to an oral disclosure, use, exhibition or other means	cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled
'P' document published prior to the international filing date but later than the priority date claimed	in the art.  *&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
9 August 2004	30/08/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hilgenga, K

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	on account of account passages	Flores and to cigniff (40).
A	AGNIHOTRI R ET AL: "SORBENT/ASH REACTIVATION FOR ENHANCED SO2 CAPTURE USING A NOVEL CARBONATION TECHNIQUE" INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 38, no. 3, 1999, pages 812-819, XP002933502 ISSN: 0888-5885 page 812, left-hand column, paragraph 1 page 813, left-hand column, last paragraph - page 815, left-hand column, last paragraph page 816, right-hand column, last paragraph	10-20
Α	WO 99/56868 A (THE OHIO STATE UNIVERSITY) 11 November 1999 (1999-11-11) page 15; claim 1	10-20
A	WO 97/06889 A (ABB RESEARCH LTD) 27 February 1997 (1997-02-27) claim 1	10,17, 18,20
A	GB 1 229 415 A (CONSOLIDATION COAL COMPANY) 21 April 1971 (1971-04-21) page 5, line 15 - line 28; claim 1	10,13, 14,16-18
A	US 4 900 533 A (P.J. MALDEN) 13 February 1990 (1990-02-13) cited in the application claim 1	
A	US 5 792 440 A (F.R. HUEGE) 11 August 1998 (1998-08-11) cited in the application	

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-9

In view of the multiple independent method claims and also the wording used in claim 1 which is not supported by the description and , which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) with respect to claim 1 and its dependent claims 2 to 9 to such an extent that a meaningful search is impossible for claims 1 to 9. Consequently, the search has been carried out for those parts of the application which do appear to be clear, and supported by the description , namely the method of claims 10 to 20.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1-9 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No
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